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Amdt
17/c

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: THOMAS I. INSLEY et al.

Serial No.: 09/099,632

Filed: June 18, 1998

For: MICROCHANNELED
ACTIVE FLUID HEAT
EXCHANGER

Examiner: Leo, L.

Group Art Unit: 3743

Docket No. 27987-208414


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Commissioner for Patents
Washington, D.C. 20231

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Lynn C. Cameron

AMENDMENT

This Amendment is responsive to the outstanding Office Action mailed
March 30, 2000. A one month extension of time has been requested and the appropriate
fee has been paid. Please amend the application as follows:

IN THE CLAIMS

Please cancel claims 26-30 without prejudice or disclaimer.

Please amend the claims as follows:

1. (Amended) A heat exchanger for use with active fluid transport, comprising:

(a) a first layer of polymeric film material having first and second major
surfaces, wherein the first major surface includes a structured surface having a
plurality of flow channels that extend from a first point to a second point along the
surface of the first layer and that have a minimum aspect ratio of the channel's length
to its hydraulic radius of about 10:1 and a hydraulic radius of no greater than about
300 micrometers;

(b) a first cover layer that overlies at least a portion of the structured polymeric
surface and includes a closing surface to cover at least a portion of the plurality of
flow channels to make plural substantially discrete flow passages; and